

OCTOBER 13, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing Of Claims:

Claims 1-21 (canceled)

I CLAIM:

22. (new) A pump comprised of a lifting buoy connected to a flexible connector said flexible connector being connected to a weighted piston; a pump cylinder mounted to a structure, on the fluid bed floor or imbedded in the fluid bed floor, with at least one intake check valve and at least one outflow check valve; said piston is mounted in said pump cylinder .
23. (new) A lifting buoy, dependent on claim (1), whose draft displacement is determined by the weight of the piston 8 and depth of wave action below the surface.  
(new) I claim a weighted piston dependent on pump claim (1) with a check valve assembly to allow the ventilation and passage of entrapped air or gases.
24. (new) I claim a buoy dependent on claim (1), whose freeboard or surplus buoyancy raises the buoy at a speed that approximates the speed of wave's vertical travel.
25. (new) I claim a buoy dependent on claim (1), with a mooring ring used to stabilize the direction of travel of the buoy.
26. (new) I claim a piston dependent on pump, claim (1) without sealing rings or with one or more sealing rings to provide a seal against the cylinder wall and whose weight provides the pump pressure on down stroke.
27. (new) I claim a cylinder dependent on claim (1) with upper limit stops, at least one intake check valve and at least one discharge check valve.

28. (new) I claim a hawser guide with supports dependent on claim (1).
29. (new) I claim a process using one or more pumps mounted to a structure, on the fluid bed floor or imbedded in the fluid bed floor to draw fluid in when lifting buoy and weighted piston rise with a wave and pushes water out under the pressure of the weighted piston as the lifting buoy and weighted piston are lowered as the crest of a wave passes to create renewable energy.
30. (new) I claim a process dependent on claim (29) to create an oxygen regeneration system by pumping oxygen enriched sea water from the surface to the bottom of the ocean floor.
31. (new) I claim a process dependent on claim (29) to create a reservoir of stored energy in the form of the fluid pumped into reservoir.
32. (new) I claim a process dependent on claim (29) to pump fluid into a reservoir for the purpose of creating hydro-electric power from said reservoir 's hydro-electric generators.
- 33.(new) I claim a process dependent on claim (29) to pump fluid into hydro-electric generators for the purpose of creating hydro-electric power from said hydro-electric generators
34. (new) I claim a process dependent on claim (29) to pump power to booster pumps through mechanical means to increase hydraulic pressure and/or volume .
35. (new) I claim a process dependent on claim (29) to pump contaminated fluid into, and the formation of, evaporation ponds or large bodies of water for mineral and chemical extraction, refinement and toxic waste removal from contaminated fluids.
36. (new) I claim a process dependent on claim (29) to create, by pumping salt water, salt water lakes, large bodies of water, and seas for the evaporation of said water for the purpose of forming moisture laden clouds.

37. (new) I claim a process dependent on claim (29) where prevailing winds will blow moisture laden clouds to natural and man made barriers causing rain to fall.

38. (new) I claim a process dependent on claim (29) to create new pasture and farmland created by resultant rainfall by pumping seawater into evaporation ponds, creating moisture laden clouds which are blown to a natural or man made barrier causing rain to fall and farm and pasture land are created.

39. (new) I claim a process dependent on claim (29) to moderate the earth's climate by pumping seawater into, and the formation of, salt water lakes, large bodies of water, and seas for the evaporation of said water for the purpose of forming moisture laden clouds; said additional moisture will cleanse the atmosphere when it falls as rain; the whole cycle shall act as a radiator to cool the earth.

40. (new) I claim a process dependent on claim (29) to desalinate water using pumps as a source of energy to extract fresh water from the saltwater.

41. (new) I claim a process dependent on claim (29) to pump seawater to a levied reservoir to raise sea organisms for the harvesting of said sea organisms.

42. (new) I claim a process dependent on claim (29) to claim land from the sea by using these pumps with their suctions within the levied areas, to pump water out of said levied area.

43. (new) I claim a process dependent on claim (29) to clean up oil spills and other contaminants by pumping contaminants into a confined protected area.